1 **CLAIM LISTING** 2 (Currently Amended) A method of designing a logic circuit to provide a predetermined 1. 3 logical operation, the method including the steps of: 4 defining a logic synthesis block comprising a single dynamic logic circuit; 5 (a) performing logic synthesis for the predetermined logical operation to produce an 6 (b) intermediate circuit, the logic synthesis being performed utilizing a synthesis 7 8 library constrained to the logic synthesis block; eliminating unused devices in the intermediate circuit to produce a final circuit; 9 (c) 10 and sizing the devices in the final circuit. 11 (d) 12 (Original) The method of Claim 1 wherein the step of defining the logic synthesis block 2. 13 includes selecting the largest practical dynamic AND/OR circuit for the integrated circuit 14 fabrication technology in which the circuit is to be implemented. 15 16 17 3. (Original) The method of Claim 2 wherein the logic synthesis block comprises a four high and four wide dynamic AND/OR circuit. 18 19 (Original) The method of Claim 1 wherein the step of performing logic synthesis 20 4. includes leaving the size of the devices in the logic synthesis block substantially 21 22 unconstrained.

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(Original) The method of Claim 1 wherein the step of eliminating unused devices from 5. 1 the intermediate circuit includes detecting devices having a state that remains constant as 2 the intermediate circuit operates to provide the predetermined logical operation. 3 (Original) The method of Claim 1 wherein the step of sizing the devices in the final 5 6. 6 circuit includes analyzing the final circuit to determine the characteristics of each device in the final circuit necessary in order to consistently provide the predetermined logical 7 8 operation and meet drive requirements. 9 (Original) The method of Claim 1 wherein the logic synthesis block uses a single 10 7. 11 activation/reset clock signal. 12 (Currently Amended) A method of synthesizing a logic circuit to provide a 13 8. predetermined logical operation, the method including the steps of: 14 15 (a) defining a logic synthesis block comprising a single dynamic logic circuit; and performing logic synthesis for the predetermined logical operation to produce an 16 (b) 17 intermediate circuit, the logic synthesis utilizing a synthesis library constrained to the single dynamic logic circuit comprising the logic synthesis block. 18 19 9. (Original) The method of Claim 8 wherein the step of defining the logic synthesis block 20 includes selecting the largest practical dynamic AND/OR circuit for the fabrication 21 technology in which the circuit for performing the predetermined logical operation is to 22 23 be implemented.

10. (Original) The method of Claim 8 wherein the logic synthesis block comprises a four 1 2 high and four wide dynamic AND/OR circuit. 3 (Original) The method of Claim 8 wherein the step of performing logic synthesis for the 4 11. 5 predetermined logical operation includes leaving device size in the logic synthesis block substantially unconstrained. 6 7 12. (Original) The method of Claim 8 wherein the dynamic logic circuit comprising the logic 8 9 synthesis block operates using a single activation/reset clock signal. 10 11 13. (Currently Amended) In a circuit design method utilizing a logic synthesis tool and 12 predefined logic circuit library to provide a logic implementation for a predetermined 13 logical operation, the improvement comprising: 14 defining a logic synthesis block comprising a single dynamic logic circuit; and (a) 15 (b) constraining the logic synthesis tool to the logic synthesis block. 16 17 14. (Original) The method of Claim 13 wherein the logic synthesis tool produces an 18 intermediate circuit design which performs the predetermined logical operation, and 19 further including the steps of: 20 (a) eliminating unused devices in the intermediate circuit design to produce a final 21 circuit; and 22 sizing the devices in the final circuit. (b) 23

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- 1 15. (Original) The method of Claim 13 wherein the step of defining the logic synthesis block
 2 includes selecting the largest practical dynamic AND/OR circuit for the circuit fabrication
 3 technology in which the circuit design is to be implemented.
- (Original) The method of Claim 13 wherein the logic synthesis block comprises a four
 high and four wide dynamic AND/OR circuit.

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- 8 17. (Original) The method of Claim 13 further including the step of leaving the device size 9 in the logic synthesis block substantially unconstrained for the logic synthesis tool.
- 11 18. (Original) The method of Claim 13 wherein the logic synthesis block uses a single activation/reset clock input.